

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3101 :
Examiner Blair Johnson :
In re application of :
REN JUDKINS : PLEATED AND CELLULAR
Serial No. 08/756,282 : MATERIALS AND METHOD FOR
THE MANUFACTURE THEREOF
Filed November 25, 1996 : USING A SPLITTER

#4
C
Declaration
5-13-98

DECLARATION OF REN JUDKINS UNDER 37 C.F.R. § 1.131

I, REN JUDKINS, hereby declares as follows:

1. I am the inventor of the subject matter of the above-titled application. At least as early as 1990 I conceived of a tabbed honeycomb material for use in cellular pleated shades. I envisioned that such a shade could be made by splitting double cell or triple cell structure to create one or two stacks of single cell tabbed honeycomb. Each cell of this honeycomb would be made of strips of material folded lengthwise to form an upper cell wall and a lower cell wall. Then, the free edges would be connected together by adhesive or by welding to form a tab or fin. This cellular material would be attached between a headrail and a bottomrail and have lift cords as in other types of pleated shades.

2. Prior to March 1994 I obtained samples of multiple cell material manufactured by at least two different manufacturers. I cut that material to form one or two stacks of single cell material. Each stack consisted of a series of tabbed cells, each cell attached at its upper edge and at its lower edge to its adjacent cells.

3. On February 25, 1991, during the ordinary course of business I created a computer drawing of my tabbed cellular structure. A copy of that drawing labeled T19 is attached hereto. The document number 910225A contains the date 910225 and a letter indicating it was the first drawing done that day.

4. Since originally conceiving of the tabbed cellular structure I have been diligent in testing various fabrics and adhesives, in seeking licensees for this invention and in searching for a machine builder who could manufacture a machine that could make this tabbed cellular structure.

I declare that the foregoing is true and correct, that all statements made on information and belief are believed to true, and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine, imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any false statements may jeopardize the validity of a patent which issues from the above-identified patent application.

Jan 20, 1998
Date: _____

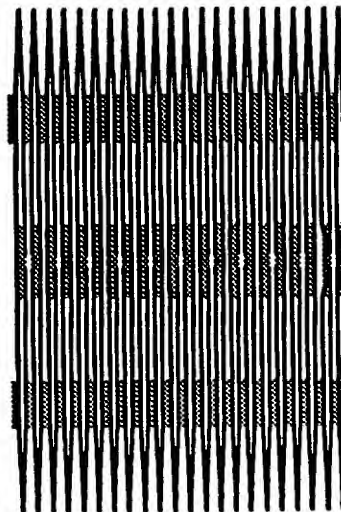


REN JUDKINS

Doc. no. 910225 A

CONFIDENTIAL

The tab on the honeycomb is necessary as an area for the bond line, but it will also create more definition in the appearance of the product. A definite advantage especially on the window side. The tab could also serve as a point to attach another tabbed layer in a more energy conscious market (Finland). The tab needs to be at least 1/16th of an inch wide and can be much wider if needed. Cell sizes could also be much larger. The minimum size is shown.



Two extruded adhesive bonds

Tubes are double bonded and stacked



Extruded adhesive bond

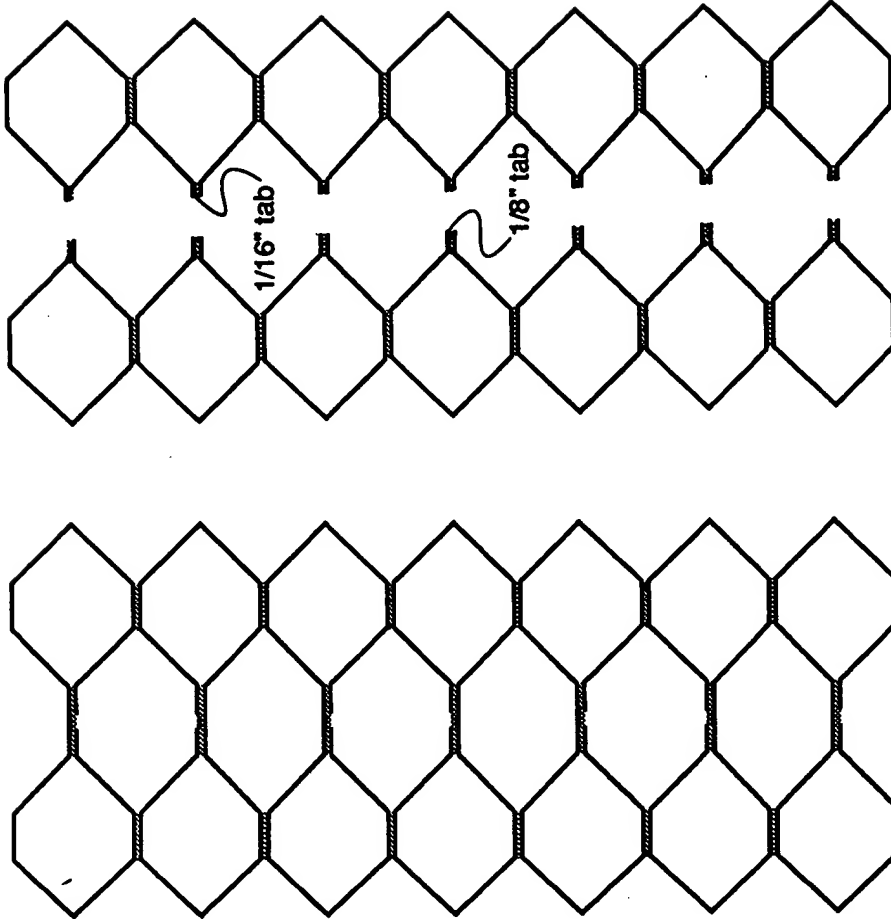
Tube is bonded to itself



Fiat strip is folded into tube

Two Symmetrical Tabbed Honeycombs -

made simultaneously by splitting in half a triple cell honeycomb made by the strip process.



Stretched stack forms a triple cell honeycomb which might be practical for some energy conservation products or is split.

Triple cell split into two single cell honeycombs with tabs. The tabs can be any size greater than .06".

Scale: actual size

Ren Judkins & Company

T19